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PATENT

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Applicants: Nayfeh et al.

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Serial No.: 09/496,506

2/19/02
Date
F-CLASS.WCM

Registration No. 35/32
Appr. February 20, 1998

Filed: February 2, 2000

Attorney for Applicant

For: SILICON NANOPARTICLE
FIELD EFFECT TRANSISTOR AND
TRANSISTOR MEMORY DEVICE

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Art Unit: 2811

TC 1700

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

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Dear Sir:

In accordance with 37 C.F.R. §§1.56, 1.97 and 1.98, applicants through counsel

herewith:

Submit a copy of the patents and publications set forth in the attached form

PTO-1449 as follows:

U.S. PATENT DOCUMENTS

PATENT NO.	PATENTEE	ISSUE DATE
4,931,692	Takagi et al.	Jun. 5, 1990
5,747,180	Miller et al.	May 5, 1998

PUBLICATIONS

- (1) G.M. Credo, M.D. Mason, and S.K. Buratto, "External quantum efficiency of single porous silicon nanoparticles", Applied Physics Letters, Vol. 74, No. 14, 5 April 1999, pp. 1978-1980.
- (2) D.J. DiMaria, J.R. Kirtley, E.J. Pakulis, D.W. Dong, T.S. Kuan, F.L. Pesavento, T.N. Theis, J.A. Cutro, and S.D. Brorson, "Electroluminescence studies in silicon dioxide films containing tiny silicon islands", J. Appl. Phys., Vol. 56, No. 2, 15 July 1984, pp. 401-416.
- (3) S. Juen, K. Überbacher, J. Baldauf, K.F. Lamprecht, R. Tessadri, R. Lackner, R.A. Höpfel, "Technology and Photoluminescence of GaAs Micro- and Nanocrystallites", Superlattices and Microstructures, Vol. 11, No. 2, 1992, pp. 181-184.
- (4) K.A. Littau, P.J. Szajowski, A.J. Muller, A.R. Kortan, and L.E. Brus, "A Luminescent Silicon Nanocrystal Colloid via a High-Temperature Aerosol Reaction", The Journal of Physical Chemistry, Vol. 97, No. 6, 1993, pp. 1224-1230.
- (5) Anton Fojtik, Arnim Henglein, "Luminescent colloidal silicon particles", Chemical Physics Letters 221, 29 April 1994, pp. 363-367.
- (6) L.A. Chiu, A.A. Seraphin, and K.D. Kolenbrander, "Gas Phase Synthesis and Processing of Silicon Nanocrystallites: Characterization by Photoluminescence Emission Spectroscopy", Journal of Electronic Materials, Vol. 23, No. 3, 1994.
- (7) Xinwei Zhao, Olaf Schoenfeld, Jun-ichi Kusano, Yoshinobu Aoyagi and Takuo Sugano, "Observation of Direct Transitions in Silicon Nanocrystallites", Jpn. J. Appl. Phys., Vol. 33, 1 July 1994, Pt. 2, No. 7A, pp. L899-L901.
- (8) J. Erland, P. Yu, S.I. Bozhevolnyi, J.M. Hvam, N.N. Ledentsov, "Second harmonic spectroscopy of semiconductor nanostructures", Quantum Electronics and Laser Science Conference Technical Digest, May 1999, pp. 233-234.
- (9) L. Pavesi, L. Dal Negro, C. Mazzoleni, G. Franzo and F. Prilolo, "Optical gain in silicon nanocrystals", Nature, Vol. 408, 23 November 2000, pp. 440-443.

REMARKS

Applicants respectfully request that the Examiner consider the above-listed references in the examination of this application and list these references of record in the application.

Applicant encloses herewith a check in the amount of \$180.00 to cover the fee set forth in 37 C.F.R. § 1.17(p).

The Commissioner is hereby authorized to charge any additional fees which may be required in this application under 37 C.F.R. §§ 1.16-1.17 to Deposit Account No. 07-2069.

Respectfully submitted,

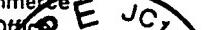
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)			
 Applicant: Nayf h et al.			
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~~U.S. PATENT DOCUMENTS~~

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FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

PUBLICATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

	G.M. Credo, M.D. Mason, and S.K. Buratto, "External quantum efficiency of single porous silicon nanoparticles", Applied Physics Letters, Vol. 74, No. 14, 5 April 1999, pp. 1978-1980.
	D.J. DiMaria, J.R. Kirtley, E.J. Pakulis, D.W. Dong, T.S. Kuan, F.L. Pesavento, T.N. Theis, J.A. Cutro, and S.D. Broson, "Electroluminescence studies in silicon dioxide films containing tiny silicon islands", J. Appl. Phys., Vol. 56, No. 2, 15 July 1984, pp. 401-416.
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	K.A. Littau, P.J. Szajowski, A.J. Muller, A.R. Kortan, and L.E. Brus, "A Luminescent Silicon Nanocrystal Colloid via a High-Temperature Aerosol Reaction", The Journal of Physical Chemistry, Vol. 97, No. 6, 1993, pp. 1224-1230.
	Anton Fojtik, Arnim Henglein. "Luminescent colloidal silicon particles", Chemical Physics Letters 221, 29 April 1994, pp. 363-367.
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	L. Pavesi, L. Dal Negro, C. Mazzoleni, G. Franzo and F. Priolo, "Optical gain in silicon nanocrystals", Nature, Vol. 408, 23 November 2000, pp. 440-443.

***Examiner:** _____ Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.